



# TEST REPORT

Test Report # 17A-002517-1-E Date of Report Issue: August 16, 2017  
Date of Sample Received: August 7, 2017 Pages: Page 1 of 6

## CLIENT INFORMATION:

Company:

Address:



## SAMPLE INFORMATION:

Product Name: 4 in 1 car emergency tool  
Model/style No.: 91469  
Main Material: ALUMINUM+ABS  
Buyer: -  
Supplier: -  
Country of Distribution: EU  
Testing Period: 08/07/2017-08/11/2017

## OVERALL RESULT:

 **PASS**

Refer to page 2 for test result summary and appropriate notes.

HANGZHOU ASIAINSPECTION  
TECHNOLOGY CO., LTD

*Kevin Lee*

Kevin Lee  
Technical Manager

HANGZHOU ASIAINSPECTION TECHNOLOGY CO., LTD ♦ Email: Labtesting@asiainspection.com ♦ Tel: (86) 571 8999 7158  
♦ 5/F A2 Building ♦ No. 1213 Huoju South Road ♦ Puyan Street ♦ Binjiang District ♦ Hangzhou ♦ China

*The test result(s) and conclusion(s) in this report relate to the sample(s) tested as described herein.  
This test report may not be reproduced in whole or in part, without written approval of Hangzhou Asiainspection Technology Co., Ltd*



# TEST REPORT

Test Report # 17A-002517-1-E Date of Report Issue: August 16, 2017  
Date of Sample Received: August 7, 2017 Pages: Page 2 of 6

---

## TEST RESULTS SUMMARY:

At the request of the client, the following tests were conducted:

CONCLUSION	TEST(S) CONDUCTED
PASS	Directive 2011/65/EU and it's amend regulation 2015/863/EU, Restriction of the Use of Certain Hazardous Substances (RoHS)
PASS	2013/56/EU-Batteries and accumulators

**DETAILED RESULTS:****Directive 2011/65/EU and it's amend regulation 2015/863/EU, Restriction of the Use of Certain Hazardous Substances (RoHS)**

Test method:

- (1) With reference to IEC 62321-3-1:2013, determination of Cadmium, Lead, Mercury, Chromium and Br by XRF;
- (2) With reference of IEC 62321-4:2013, IEC 62321-5:2013 to determine Cadmium, Lead and Mercury by ICP-OES;
- (3) With reference of IEC 62321:2008, IEC62321-7-1:2015 to determine Hexavalent Chromium by UV- vis
- (4) With reference of IEC 62321-6:2015 to determine PBBs and PBDEs by GC-MS.

No.	Parts Name	Test Item						Conclusion
		Pb	Cd	Hg	CrVI	PBBs	PBDEs	
1	Smooth black metal	ND	ND	ND	Ne	-	-	PASS
2	Gasket	BL	BL	BL	BL	BL	BL	PASS
3	Inner ring silver metal	ND	ND	ND	Ne	-	-	PASS
4	Outer ring silver metal	ND	ND	ND	Ne	-	-	PASS
5	Bule coating	BL	BL	BL	BL	BL	BL	PASS
6	Silver-white coating	BL	BL	BL	BL	BL	BL	PASS
7	Silver-grey coating	BL	BL	BL	BL	BL	BL	PASS
8	Red coating	BL	BL	BL	BL	BL	BL	PASS
9	Black coating	BL	BL	BL	BL	BL	BL	PASS
10	Inner core-silver metal	ND	ND	ND	Ne	-	-	PASS
11	Black metal tip	ND	ND	ND	Ne	-	-	PASS
12	Spring	ND	ND	ND	Ne	-	-	PASS
13	White tape	BL	BL	BL	BL	BL	BL	PASS
14	White plastic sheet	BL	BL	BL	BL	BL	BL	PASS
15	Button-rubber sleeve	BL	BL	BL	BL	BL	BL	PASS
16	PCB board-silver metal	ND	ND	ND	Ne	-	-	PASS
17	White coating	BL	BL	BL	BL	BL	BL	PASS
18	Yellow rubber	BL	BL	BL	BL	BL	BL	PASS
19	White solid glue	BL	BL	BL	BL	BL	BL	PASS
20	Resistance	ND	ND	ND	Ne	-	-	PASS
21	Pin	ND	ND	ND	Ne	-	-	PASS
22	SMD capacitance	BL	BL	BL	BL	BL	BL	PASS
23	Pin	ND	ND	ND	Ne	-	-	PASS
24	Red wire sheath	BL	BL	BL	BL	BL	BL	PASS
25	Red wire sheath	BL	BL	BL	BL	BL	BL	PASS
26	Copper wire	ND	ND	ND	Ne	-	-	PASS
27	Soldering tin	286	ND	ND	Ne	-	-	PASS
28	Transparent plastic sheet	BL	BL	BL	BL	BL	BL	PASS

**DETAILED RESULTS:**

No.	Parts Name	Test Item						Conclusion
		Pb	Cd	Hg	CrVI	PBBs	PBDEs	
29	Electronic	ND	ND	ND	Ne	-	-	PASS
30	Transparent plastic shell	BL	BL	BL	BL	BL	BL	PASS
31	Spring	ND	ND	ND	Ne	-	-	PASS
32	PCB board	BL	BL	BL	BL	ND	ND	PASS
33	Blue wire sheath	BL	BL	BL	BL	BL	BL	PASS
34	Copper wire	ND	ND	ND	Ne	-	-	PASS
35	Soldering tin	376	ND	ND	Ne	-	-	PASS
36	Internal black plastic	BL	BL	BL	BL	ND	ND	PASS
37	White plastic shell	BL	BL	BL	BL	BL	BL	PASS
38	Metal sheet-soldering tin	233	ND	ND	Ne	-	-	PASS
39	Spring	ND	ND	ND	Ne	-	-	PASS
40	Button-white plastic contact	BL	BL	BL	BL	BL	BL	PASS
41	Button-plastic plug	BL	BL	BL	BL	BL	BL	PASS
42	Silver metal contact	ND	ND	ND	Ne	-	-	PASS
43	Black frosted glass shell	ND	ND	ND	Ne	-	-	PASS
44	Silver magnetic sheet	ND	ND	ND	Ne	-	-	PASS
45	Transparent plastic	BL	BL	BL	BL	BL	BL	PASS

**2013/56/EU-Batteries and accumulators**

Components and Parts Name	Item	MDL	Result	Limit
46: Button battery	Cadmium(Cd)	2	ND	20
	Lead(Pb)	2	ND	40
	Mercury(Hg)	2	ND	5
Conclusion	-	-	PASS	-

Parameter:	Unit	Requirement	Method Detection Limit (MDL)
Lead (Pb)	mg/kg	1000	15
Cadmium (Cd)	mg/kg	100	15
Mercury (Hg)	mg/kg	1000	15
Chromium VI (Cr VI)	mg/kg	1000	15
Group PBBs	mg/kg	1000	20
Group PBDEs	mg/kg	1000	20



As specified by client, with XRF analysis toxic harmful substance content, All kinds of matrixs screening of the element is limited see chart (Unit: mg/kg)

Elements	Polymer material	Metal material/ nonmetallic material	Inorganic	Electronic component
Lead (Pb)	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$		$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Cadmium (Cd)	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$		$LOD < X < (150+3\sigma) \leq OL$
Mercury (Hg)	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$		$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Chromium (Cr)	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$		$BL \leq (500-3\sigma) < X$
Bromine (Br)	$BL \leq (300-3\sigma) < X$	/		$BL \leq (250-3\sigma) < X$

Note :

1. Unit: mg/kg. 1mg/kg=1ppm=0.0001%

2.MDL=Method Detection Limit

3.ND=Not Detected(< MDL)

4.“-”= Not Regulated or Not Applicable

5.3σ = Analysis shows that the instrument reproducibility

6.BL=Below Limit; OL=Over Limit

7. Ne=Negative, Absence of Cr(VI), the concentration of Cr (VI) in sample solution is less than 0.10μg/cm<sup>2</sup>.

Po = Positive, Presence of Cr(VI), the concentration of Cr (VI) in sample solution is more than 0.13μg/cm<sup>2</sup>.

8.“Results of XRF” is the result on total Br and total Cr while restricted substances are PBBs/PBDEs and Cr(VI).

9. \*= Exemption item

6(c) Copper alloy containing up to 4% lead by weight



**SAMPLE PHOTO:**



-End Report-